

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P233673

Luminaire Tested: **VERD-C02H-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11870 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

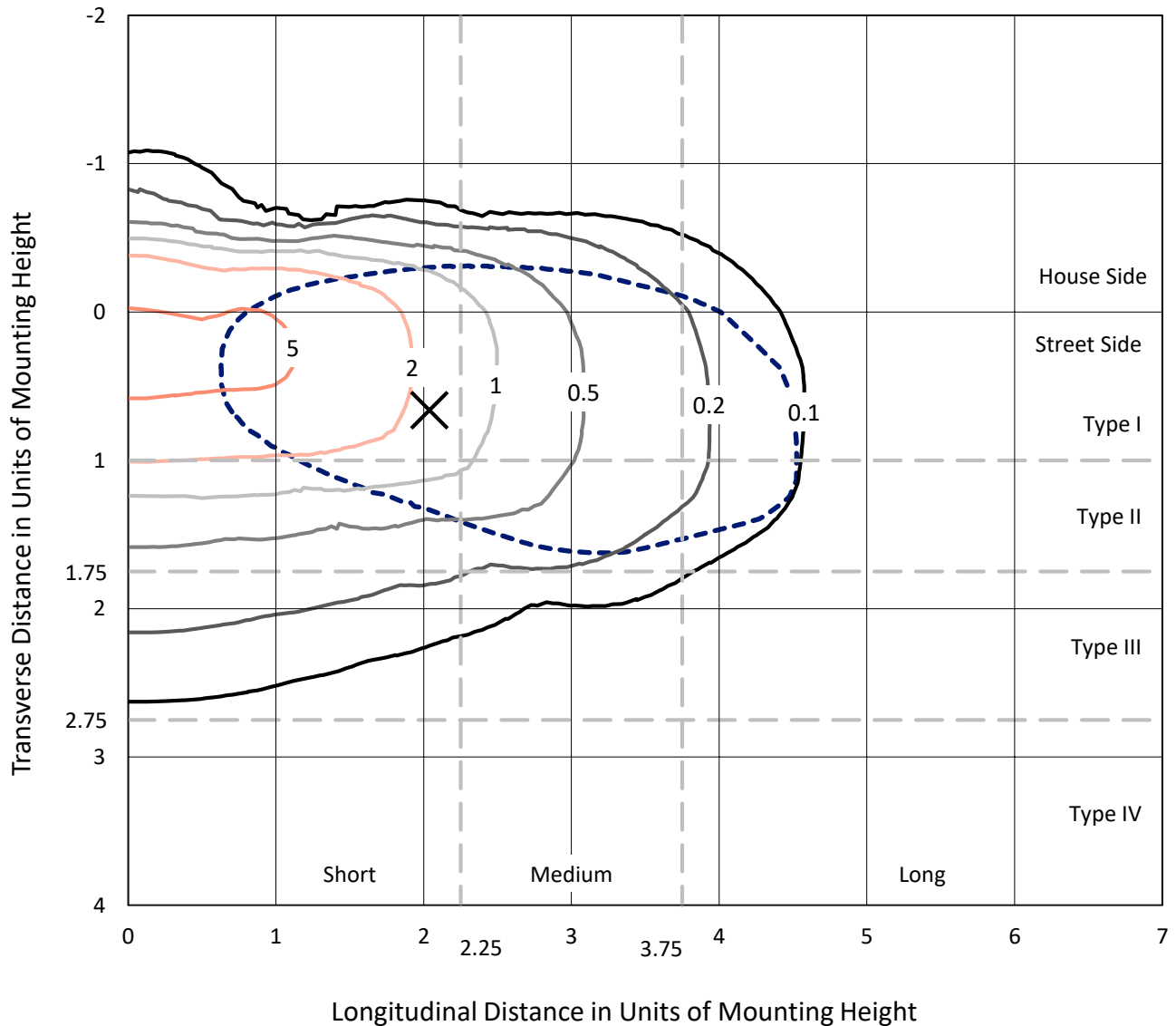
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

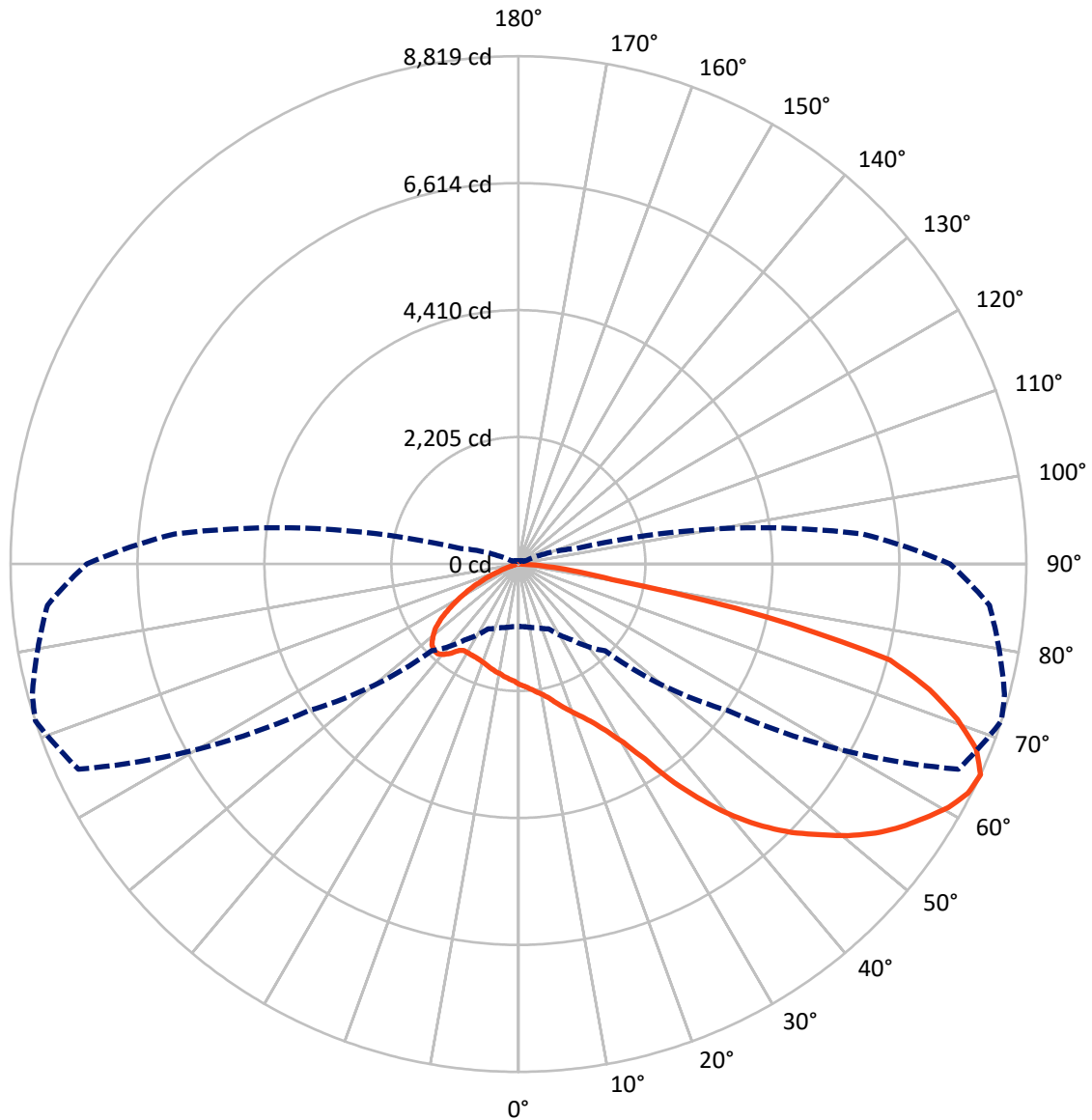
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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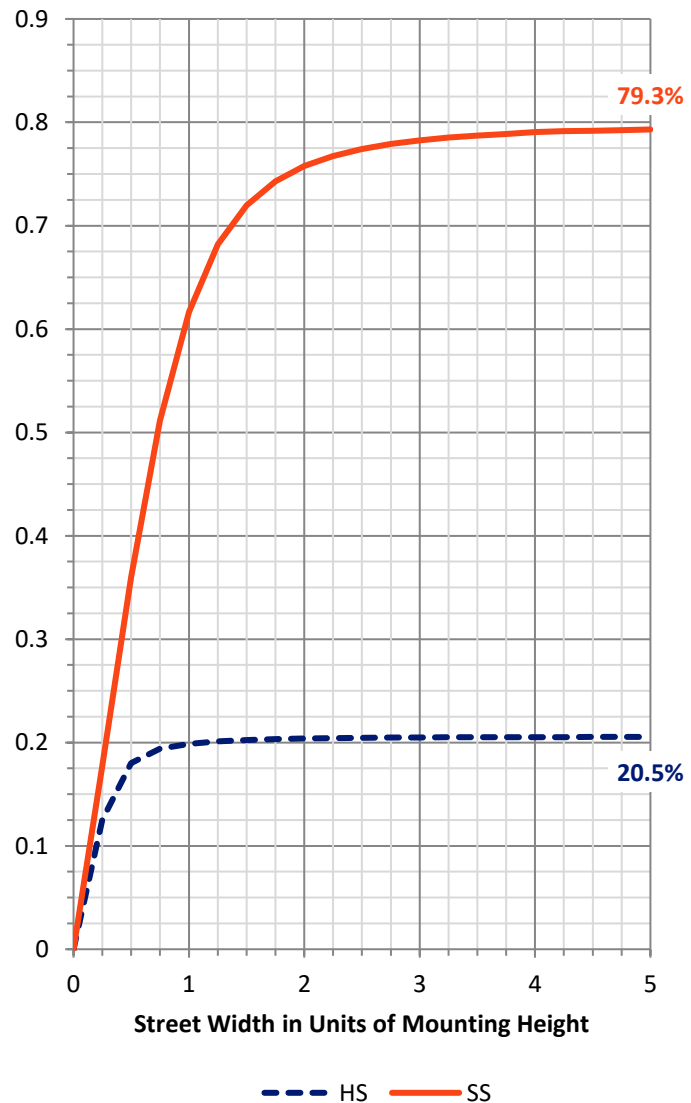
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2466.6	0.0	2466.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9403.4	0.0	9403.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	11870.0	0.0	11870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.7
10°-20°	608.6	5.1
20°-30°	1017.0	8.6
30°-40°	1504.5	12.7
40°-50°	2079.8	17.5
50°-60°	2433.8	20.5
60°-70°	2419.1	20.4
70°-80°	1448.9	12.2
80°-90°	157.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11870.0	100.0
0°-180°	11870.0	100.0



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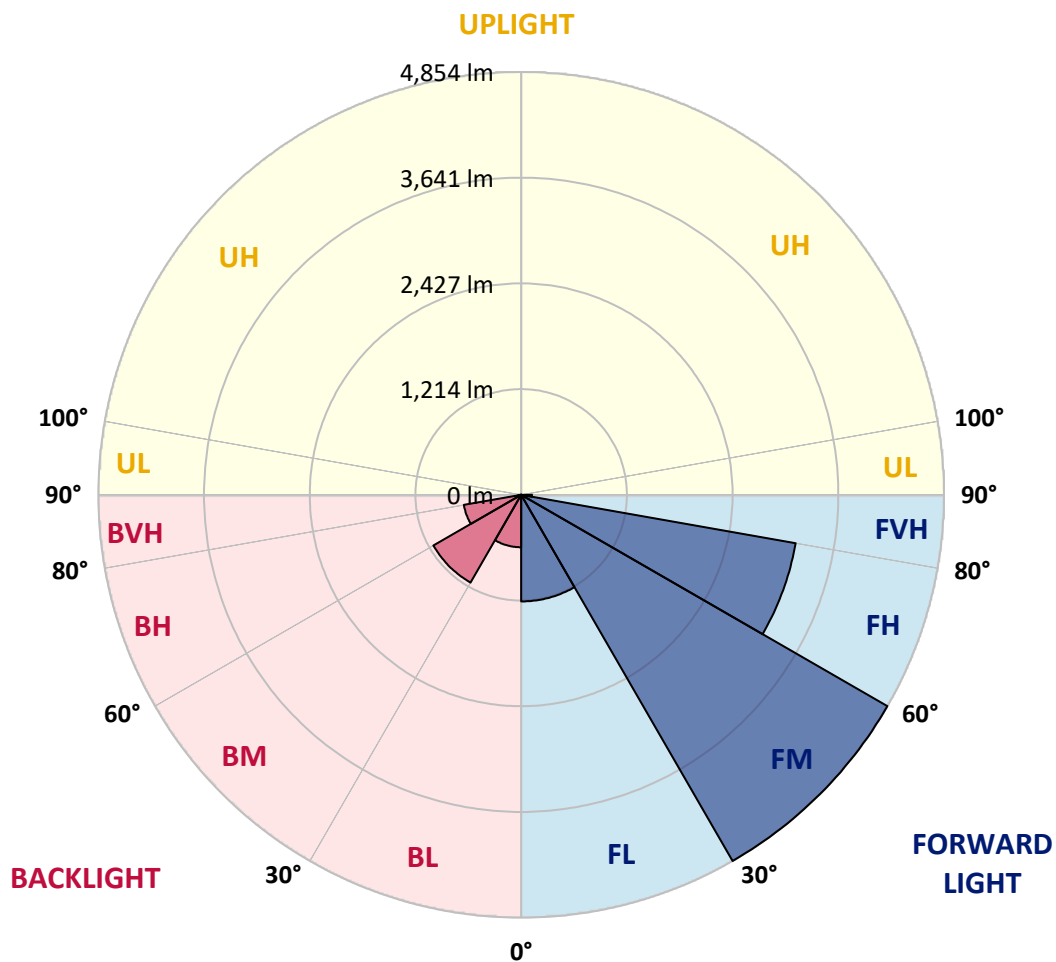
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1224.0	10.3			
FM	(30°-60°)	4854.5	40.9			
FH	(60°-80°)	3200.2	27.0			G2/5000
FVH	(80°-90°)	124.7	1.1			G2/225
BL	(0°-30°)	602.2	5.1	B2/1000		
BM	(30°-60°)	1163.6	9.8	B2/2500		
BH	(60°-80°)	667.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	33.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0
2.5°	2268.2	2270.2	2271.1	2235.3	2215.9	2193.7	2172.4	2149.1	2124.9	2116.2	2084.2
5°	2407.7	2409.6	2403.8	2370.9	2335.1	2302.1	2261.5	2219.8	2179.1	2167.5	2113.3
7.5°	2542.3	2541.4	2536.5	2494.9	2450.3	2406.7	2349.6	2293.4	2240.2	2221.8	2141.4
10°	2653.7	2655.6	2658.6	2614.0	2570.4	2518.1	2448.4	2365.1	2304.1	2275.0	2170.4
12.5°	2775.7	2769.9	2777.7	2734.1	2674.0	2626.6	2563.6	2465.8	2393.2	2356.4	2226.6
15°	2915.2	2915.2	2904.6	2868.7	2807.7	2749.6	2686.6	2596.6	2509.4	2453.2	2302.1
17.5°	3011.1	3005.3	3002.4	2971.4	2919.1	2868.7	2820.3	2728.3	2633.4	2564.6	2372.8
20°	3051.8	3053.7	3067.3	3045.0	3016.9	2986.9	2933.6	2861.9	2757.3	2683.7	2448.4
22.5°	3130.2	3132.2	3148.6	3133.1	3125.4	3117.6	3068.2	3005.3	2893.9	2823.2	2543.3
25°	3135.1	3137.0	3181.5	3206.7	3246.4	3264.8	3230.9	3176.7	3063.4	2994.6	2684.7
27.5°	3149.6	3155.4	3200.9	3270.6	3375.2	3412.1	3392.7	3390.7	3294.9	3222.2	2868.7
30°	3137.0	3142.8	3208.7	3305.5	3450.8	3559.3	3581.5	3638.7	3599.9	3545.7	3124.4
32.5°	3047.9	3069.2	3147.6	3301.6	3515.7	3712.3	3784.0	3979.6	4037.7	4043.5	3637.7
35°	2886.2	2897.8	3040.1	3257.1	3559.3	3856.6	4054.2	4415.4	4661.4	4650.8	4206.2
37.5°	2763.2	2767.0	2913.3	3181.5	3583.5	4011.6	4362.2	4940.4	5223.2	5235.7	4719.5
40°	2605.3	2633.4	2773.8	3090.5	3569.9	4142.3	4668.2	5429.5	5758.7	5745.2	5169.9
42.5°	2458.1	2474.5	2614.0	2948.1	3520.5	4242.1	4968.4	5903.1	6226.5	6182.0	5601.8
45°	2305.0	2333.1	2461.0	2764.1	3422.7	4298.2	5240.6	6352.4	6648.8	6593.6	5982.5
47.5°	2152.0	2172.4	2308.0	2595.6	3238.7	4296.3	5507.9	6773.7	7023.6	6984.9	6342.8
50°	1637.7	1682.3	2038.7	2419.3	2980.1	4214.9	5723.9	7173.7	7416.8	7356.8	6694.3
52.5°	1501.2	1515.7	1615.5	2215.0	2704.1	4021.2	5892.4	7549.5	7763.6	7694.8	7025.6
55°	1418.9	1436.3	1477.0	1800.5	2477.4	3702.6	5962.1	7900.1	8059.9	7990.2	7320.9
57.5°	1309.4	1326.9	1407.2	1550.6	2241.1	3217.4	5859.5	8211.0	8322.4	8245.9	7595.0
60°	1233.9	1241.6	1319.1	1431.5	1982.5	2727.3	5516.6	8463.8	8580.0	8489.0	7866.2
62.5°	1164.1	1172.9	1228.1	1339.4	1768.5	2368.0	4983.0	8525.8	8763.1	8692.4	8114.2
65°	1083.8	1091.5	1141.9	1240.7	1602.9	2133.6	4432.9	8430.9	8819.2	8738.8	8210.0
67.5°	977.2	987.9	1027.6	1116.7	1385.9	1868.3	3614.5	8255.6	8573.2	8489.9	8013.4
70°	845.5	850.3	897.8	978.2	1170.9	1621.3	2834.8	7631.8	8086.1	7994.1	7459.4
72.5°	682.8	691.5	742.8	827.1	961.7	1335.6	2025.1	6594.6	7469.1	7434.3	6652.7
75°	456.2	490.1	612.1	697.3	795.1	1043.1	1359.8	4628.5	6668.2	6695.3	5683.2
77.5°	87.2	90.1	256.7	381.6	464.9	637.3	841.6	2274.1	4395.1	4870.6	4285.6
80°	57.1	62.0	109.4	267.3	308.0	315.7	432.0	996.6	1656.1	2094.9	2471.6
82.5°	30.0	35.8	65.9	155.0	141.4	78.4	141.4	514.3	918.1	1054.7	1246.5
85°	12.6	14.5	32.0	53.3	39.7	32.9	32.9	205.3	406.8	470.7	489.1
87.5°	1.9	1.9	6.8	9.7	5.8	3.9	2.9	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0
2.5°	2084.2	2066.8	2042.6	2014.5	1994.2	1983.5	1974.8	1951.5	1943.8	1959.3	1955.4
5°	2092.9	2072.6	2017.4	1971.9	1926.4	1898.3	1867.3	1826.6	1809.2	1818.9	1816.0
7.5°	2098.8	2073.6	1991.3	1920.5	1844.0	1790.8	1750.1	1696.8	1670.7	1680.4	1668.7
10°	2107.5	2069.7	1960.3	1866.3	1766.6	1689.1	1629.0	1567.0	1539.9	1547.7	1538.0
12.5°	2144.3	2083.3	1945.7	1819.8	1697.8	1600.9	1525.4	1459.5	1420.8	1428.5	1420.8
15°	2204.3	2110.4	1924.4	1760.7	1625.2	1514.7	1427.6	1352.0	1307.5	1318.1	1308.5
17.5°	2267.3	2143.3	1905.1	1694.9	1547.7	1424.7	1333.6	1269.7	1198.0	1204.8	1190.3
20°	2321.5	2174.3	1894.4	1632.9	1475.0	1328.8	1219.4	1175.8	1077.0	1051.8	1035.3
22.5°	2397.1	2219.8	1885.7	1582.5	1385.0	1232.9	1103.1	1021.8	915.2	862.0	857.1
25°	2504.6	2287.6	1884.7	1542.8	1303.6	1132.2	951.1	814.5	720.6	657.6	648.9
27.5°	2641.1	2377.7	1895.4	1503.1	1222.3	1005.3	764.2	613.1	528.8	480.4	471.7
30°	2837.7	2495.8	1908.9	1457.6	1131.2	840.7	569.5	451.3	381.6	346.7	339.9
32.5°	3259.0	2799.0	1929.3	1410.1	1021.8	633.4	413.6	327.4	274.1	252.8	263.4
35°	3766.5	3210.6	2020.3	1349.1	878.4	451.3	298.3	233.4	196.6	201.4	207.3
37.5°	4210.1	3603.8	2224.7	1270.7	686.7	331.2	205.3	174.3	174.3	189.8	203.4
40°	4628.5	3958.3	2407.7	1164.1	481.3	228.6	158.8	161.7	158.8	168.5	165.6
42.5°	5023.6	4294.4	2551.0	1037.3	314.8	157.9	144.3	150.1	145.3	147.2	138.5
45°	5397.5	4642.1	2630.5	850.3	209.2	137.5	132.7	142.4	141.4	139.5	130.7
47.5°	5743.2	4948.1	2670.2	613.1	144.3	124.0	124.9	131.7	134.6	132.7	127.8
50°	6082.2	5253.2	2634.3	367.1	129.8	113.3	120.1	120.1	125.9	115.3	111.4
52.5°	6406.7	5559.2	2521.0	222.8	119.1	105.6	111.4	109.4	112.3	101.7	99.8
55°	6711.8	5786.8	2297.3	175.3	112.3	100.7	101.7	103.6	98.8	87.2	91.0
57.5°	7034.3	5980.5	1985.4	158.8	109.4	93.9	95.9	94.9	87.2	76.5	76.5
60°	7299.6	6121.0	1672.6	144.3	107.5	92.0	85.2	83.3	71.7	65.9	64.9
62.5°	7482.7	6160.7	1367.5	128.8	101.7	85.2	76.5	70.7	60.0	54.2	52.3
65°	7497.2	5991.2	1041.1	116.2	95.9	79.4	70.7	58.1	47.5	42.6	40.7
67.5°	7199.9	5520.5	734.1	106.5	86.2	73.6	62.0	46.5	37.8	33.9	32.9
70°	6578.1	4935.5	449.4	93.0	78.4	68.8	63.9	37.8	31.0	26.1	26.1
72.5°	5772.3	4275.0	263.4	79.4	65.9	55.2	42.6	32.0	26.1	20.3	20.3
75°	4947.1	3393.6	161.7	60.0	48.4	43.6	32.9	27.1	21.3	15.5	15.5
77.5°	3562.2	2505.5	125.9	38.7	30.0	31.0	24.2	21.3	17.4	12.6	12.6
80°	2185.9	1525.4	90.1	26.1	17.4	17.4	17.4	16.5	12.6	10.7	9.7
82.5°	1108.0	697.3	44.6	15.5	10.7	10.7	10.7	11.6	9.7	7.7	7.7
85°	389.3	195.6	13.6	7.7	6.8	6.8	5.8	5.8	4.8	3.9	3.9
87.5°	1.0	1.9	1.9	2.9	3.9	3.9	2.9	1.9	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)